

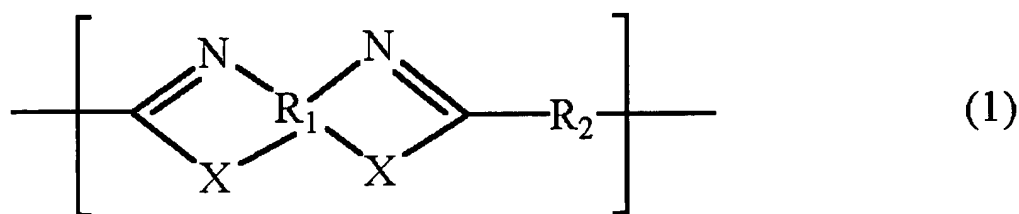
AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

Listing of Claims

Claims 1-10 (canceled)

Claim 11 (currently amended): An optical waveguide comprising prepared using the an optical transparent resin as set forth in any one of claims 1 to 6 comprising a poly(benzoazole) having repeating units represented by the following general formula (1) as a constituent:



wherein R₁ represents a tetravalent organic group having an aromatic ring, N and X in each of the two sets thereof are linked to two atoms at the ortho-position on the aromatic ring of R₁ to form a 5-membered ring, R₂ represents a divalent organic group and X represents an oxygen atom or a sulfur atom.

Claims 12 and 13 (canceled)

Response
Serial No. 10/763,348
Attorney Docket No. 042050

Claim 14 (new): An optical waveguide according to claim 11, wherein it comprises, as a constituent, a poly(benzoxazole) having repeating units represented by the general formula (1) in which X represents an oxygen atom.

Claim 15 (new): An optical waveguide according to claim 14, wherein the poly(benzoxazole) is a fluorine-containing poly(benzoxazole).

Claim 16 (new): An optical waveguide according to claim 15, wherein the fluorine-containing poly(benzoxazole) is a product obtained by a reaction of at least one bis(aminophenol) derivative with at least one dicarboxylic acid derivative; at least one member selected from the group consisting of the foregoing at least one bis(aminophenol) derivative and the foregoing at least one dicarboxylic acid derivative is a fluorine-containing derivative and at least one member selected from the foregoing group is a fluorine-free derivative.

Claim 17 (new): An optical waveguide according to claim 16, wherein the fluorine-containing bis(aminophenol) derivative is a trifluoromethyl group-containing bis(aminophenol) derivative and the fluorine-containing dicarboxylic acid derivative is a trifluoromethyl group-containing dicarboxylic acid derivative.

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Claim 18 (new): An optical waveguide according to claim 11, wherein it comprises, as a constituent, a poly(benzothiazole) having repeating units represented by the general formula (1) in which X represents a sulfur atom.

Claim 19 (new): An optical waveguide according to any one of claims 11 and 14 to 18, wherein the number of the repeating units represented by the general formula (1) ranges from 1 to 500.

Claim 20 (new): An optical waveguide according to any one of claims 11 and 14 to 18, wherein the optical transmission factors as determined using light rays having wavelengths of 1300 nm and 1550 nm are not less than 80%.

Claim 21 (new): An optical waveguide according to any one of claims 11 and 14 to 18, wherein the refractive indexes as determined using light rays having wavelengths of 1300 nm and 1550 nm range from 1.45 to 1.75.

Claim 22 (new): An optical waveguide according to any one of claims 11 and 14 to 18, wherein the rates of birefringence as determined using light rays having wavelengths of 1300 nm and 1550 nm are not more than 0.008.